

METHOD FOR TREATING WATER CONTAINING ETHANOLAMINE

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Abstract

PROBLEM TO BE SOLVED: To decompose/remove COD components and total nitrogen in water containing ethanolamine in a removal ratio by a method in which when water containing ethanolamine, after being electrolyzed in the presence of chloride ions, is brought into contact with a metal peroxide catalyst for treatment, the electrolysis is carried out two or more times.

SOLUTION: When water containing ethanol amine discharged in the regeneration of an ion exchange apparatus is regenerated in an electric power plant is treated, the water, after being electrolyzed in the presence of chloride ions, is brought into contact with a metal peroxide catalyst for treatment, and the electrolysis is carried out two or more times. Namely, the water is sent from a raw water storage tank 1 to an electric reactor 3 by a pump 2 to be electrolyzed. The electrolyzed water, after being treated by a gas-liquid separator 4, an electrolytic reactor 6, a gas-liquid separator 7, an electrolytic reactor 9, and a gas liquid separator 10, is sent to metal oxide catalyst columns 12 and 13 by a pump 11, and the treated water discharged from the column 13 is stored in a treated water storage tank 14.

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